

MD8 Airport

The Portable Air Sampler

Simplifying Progress

SARTURIUS

MD8 Airport – Portable, Reliable, Fast

MD8 Airport is the air sampler for the pharmaceutical industry, biotechnology, food and beverage industry, for hospitals, and for measurements within the scope of environmental protection and occupational safety.

Benefits offered by Sartorius MD8 Airport:

- Battery operated and portable so it can be used everywhere
- Battery power level clearly indicated so constant performance during sampling is guaranteed
- Ergonomically designed and easy to clean
- User friendly prompting with the option of four languages: English, French, German and Spanish
- Flexible options for customized use including adjustable air throughput and air flow rate
- Parameters last used are stored even after automatic shut-off
- Can be calibrated on-site
- Utilizes Gelatin Membrane Filter Method, allowing for reliable and accurate results

The Gelatin Membrane Filter Method offers:

- High retention rate for microorganisms and viruses
- Protection of microorganisms sampled from drying out for a relevant and meaningful sampling time
- Use of a variety of nutrient media
- The solubility of the gelatin membrane filter allows further applications (e.g. rapid microbiology, virus sampling and sampling of high bacterial concentrations).

MD8 Airport can also be used with BACTair™ culture media plates.





Technical Specifications

MD8 Airport

Air flow control	by an integrated impeller wheel
Air flow rate adjustable in five steps	10 l/min., 20 l/min., 30 l/min., 50 l/min. 125 l/min. (only when BACTair™ culture media plates are used)
Pre-set sample volumes	25, 50, 100, 250, 500, 750 and 1000 liters

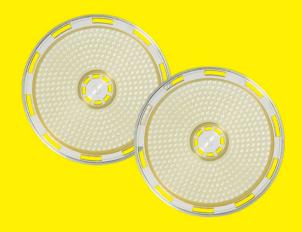
Table of correlation of sampling volumes | sampling times at the given air flow rates

Sampling volume in liters (I)	25	501	100 l	2501	5001	750 I	1000 I
Sampling time in seconds (s)							
at 10 l/min. flow rate	150 s	300 s	600 s	1500 s	3000 s	4500 s	6000 s
at 20 l/min. flow rate	75 s	150 s	300 s	750 s	1500 s	2250 s	3000 s
at 30 l/min. flow rate	50 s	100 s	200 s	500 s	1000 s	1500 s	2000 s
at 50 l/min. flow rate	30 s	60 s	120 s	300 s	600 s	900 s	1200 s
at 125 l/min. flow rate	12 s	24 s	48 s	120 s	240 s	360 s	480 s
Additionally user-definable	from 10 to 2000 liters in 5-liter increments						
sampling volumes							
Total sampling time	approx. 4	.5 hours at 50	I/min., 4 hours	s at 125 I/min.			
with one battery charge				,			
Power consumption	5 – 14 Wa	tt depending o	of filter pressur	re drop			
Weight	approx. 2.5 kg						
Dimensions (L × W × H)	300 × 135 × 165 mm						
Certified for compliance with the	CE requiremer	its					



Specifications of BACTair™ Culture Media Plates

Material	Polystyrene
Dimensions	116 × 24 mm
Number of impaction holes	400 holes, each Ø 0.47 mm
High particle retention for particles	> 0.65 µm



Specifications of Gelatin Filter Disposables

Materials	gelatin (water soluble) Cyrolite (if with single-use holder)
Nominal pore size	3 µm
Filter diameter	25 mm, 37 mm, 47 mm, 50 mm, 80 mm (for standard 90 mm agar plates)
Limiting operating conditions	max. 30°C at 85% relative humidity
Retention of bacteria and viruses	99.9995% for Bac. sub. niger spores at 0.25 m/s inlet velocity 99.94% for phage T3 (coli phage) at 80% relative humidity and 0.3 m/s inlet velocity



Battery

Rechargeable battery	NiMH 16.8 volts/3800 mAh
Battery charger	input 100 – 240 V 47 – 63 Hz/600 mA; output 24 V/1000 mA
Charging time of battery	approx. 4.5 hours when completely discharged
Battery charger	with changeable plugs for worldwide use

MD8 Airport can be used during recharging.



Ordering Information

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